

**STIC Database Tracking Number: 276941**

**To: AHMED SEFER**  
**Location: JEF-4C05**  
**Art Unit: 2893**  
**Monday, November 03, 2008**

**Case Serial Number: PATENT**  
**6836299**

**From: DIANE JACKSON**  
**Location: EIC2800**  
**JEF-4B68**  
**Phone: (571)272-3260**

**diane.jackson@uspto.gov**

## Search Notes

**Attached are litigation search results in Lexis Nexis, and CourtLink and Questel-Orbit.**

**No Litigation was found for Patent Number 6836299.**

**If you have any questions, please feel free to contact me.**

**Thanks,**

**Diane**



# EIC 2800 SEARCH REQUEST

2 76941

Today's Date NOV 3 2008

Name AMMED SEFER

AU/Org. 2893 Employee # 78215

Bld.&Rm.# Jef 4085 Phone 2-1921

Priority App. Filing Date \_\_\_\_\_

Case/App. # \_\_\_\_\_

## Format for Search Results

EMAIL ☒ PAPER ☐

If this is an Appeals case, check here ☐

Describe this invention in your own words

Litigation Search  
for US patent No. 6,836,299

Synonyms \_\_\_\_\_

## Additional Comments

Please submit completed form to your EIC.

## STIC USE ONLY

Searcher \_\_\_\_\_

Date Completed \_\_\_\_\_

Phone \_\_\_\_\_

Sources \_\_\_\_\_

**Patent Number Information**

Application Number: **09/911613** Assignments Examiner Number: **78215 / SEFER, AHMED**  
Filing or 371(c) Date: **07/25/2001** eDan Group Art Unit: **2826** IFW Madras  
Effective Date: **07/25/2001** Class/Subclass: **349/042.000**  
Application Received: **07/25/2001** Lost Case: **NO**  
Pat. Num./Pub. Num: **6836299/20020109797** Interference Number:  
Issue Date: **12/28/2004** Unmatched Petition: **NO**  
Date of Abandonment: **00/00/0000** L&R Code: Secrecy Code:1  
Attorney Docket Number: **6192.0221.AA** Third Level Review: **NO** Secrecy Order: **NO**  
Status: **150 / PATENTED CASE** Status Date: **12/09/2004**  
Confirmation Number: **3461** Oral Hearing: **NO**  
Title of Invention: **TFT LCD DEVICE HAVING MULTI-LAYERED PIXEL ELECTRODES**

**Appln** **Info** **Contents** **Petition Info** **Atty/Agent Info** **Continuity/Reexam** **Foreign Data** **Inventors**

**Search Another: Application #**  **Search** **or Patent#**  **Search**  
**PCT /**  **/**  **Search** **or PG PUBS #**  **Search**  
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Selected file: PLUSPAT

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RELOADED 02/2008 Comprehensive Worldwide Patents database  
Individual records for each Country or Patent Office  
Coverage: 79 patenting authorities; start dates vary from 1800 forward  
Abstracts/Titles in English , French & German. Increased  
standardization  
of Assignee/Inventor names. Added cited ref's BE , CH , NL , TR , AU ,  
& JPB  
For PlusPat Fact Sheet , Pricing and FAQ , see the Questel website  
Last update of file: 2008/10/31 (YYYY/MM/DD) 2008-44/UP (last update)

Search statement 1

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nbr /pn us6836299

PLUSPAT1 US6836295	1
PLUSPAT2 US6836296	1
PLUSPAT3 US6836297	1
PLUSPAT4 US6836298	1
PLUSPAT5 US6836299	1
PLUSPAT6 US68363	1
PLUSPAT7 US683630	1
PLUSPAT8 US6836300	1
PLUSPAT9 US6836301	1
PLUSPAT10US6836302	1
PLUSPAT11US6836303	1
PLUSPAT12US6836304	1
PLUSPAT13US6836305	1
PLUSPAT14US6836306	1
PLUSPAT15US6836307	1

Some: numbers / Continue: Y / None: N

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Search 1 - 5 - 1

\*\* SS 1: Results 1

Continue: Y / N

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Select All | Unselect All

☐ 1 / 1 PLUSPAT -  
Worldwide Patents - ©Questel



US20020109797 (A1) TFT LCD device having multi-layered pixel electrodes

PN US2002109797 A1 20020815 [US20020109797]

PN2 US6836299 B2 20041228 [US6836299]

TI (A1) TFT LCD device having multi-layered pixel electrodes

PA (B2) SAMSUNG ELECTRONICS CO LTD (KR)

PA0 Samsung Electronics Company, Ltd., Suwon [KR]

PA2 (B2) SAMSUNG ELECTRONICS CO LTD (KR)

IN (A1) CHUNG WOO-SUK (KR); HWANG CHANG-WON (KR)

AP US91161301 20010725 [2001US-0911613]

PR KR20010006820 20010212 [2001KR-0006820]

IC (A1) G02F-001/136

G02F-001/1333 [2006-01 A F I R M JP]

G02F-001/1343 [2006-01 A - I R M EP]

G02F-001/136 [2006-01 A L I B M KR]

G02F-001/1362 [2006-01 A - I R M EP]

ICAA G02F-001/1368 [2006-01 A - I R M EP]

H01L-021/28 [2006-01 A L I R M JP]

H01L-021/3205 [2006-01 A L I R M JP]

H01L-021/336 [2006-01 A L I R M JP]

H01L-023/52 [2006-01 A L I R M JP]

H01L-029/786 [2006-01 A L I R M JP]

G02F-001/13 [2006 C - I R M EP]

ICCA H01L-021/02 [2006 C L I R M JP]

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H01L-029/66 [2006 C L I R M JP]

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EC G02F-001/1343B

G02F-001/1362H

G02F-001/1368

ICO S02F-203/02

T01L-029/45S2

PCL ORIGINAL (O) : 349042000; CROSS-REFERENCE (X) : 257059000

257072000 349147000

DT Basic

Cited in the search report

-US5917563(A)[US5917563]

-US5923390(A)[US5923390]

-US5989945(A)[US5989945]

CT -US6081310(A)[US6081310]

-US6291136(B1)[US6291136]

-US6323521(B1)[US6323521]

-US6358759(B1)[US6358759]

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-US6519014(B2)[US6519014]  
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 -JP56050537(A)[JP56050537]  
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 -JP10282520(A)[JP10282520]  
 -JP11087716(A)[JP11087716]  
 -JP2000029053(A)[JP2000029053]

STG (A1) First published patent application

STG2 (B2) Granted patent as second publication

In a TFT LCD device comprising a substrate, at least one thin film transistor formed on the substrate, having a source electrode and a drain electrode, an insulating layer formed over the whole surface of the substrate on which the thin film transistor is formed, having at least one contact hole exposing a portion of the drain electrode, and reflective layer pixel electrode corresponding to the thin film transistor, formed on the insulating layer to be connected with the drain electrode through the contact hole, the pixel electrode is formed of a multi-layered conductive layer. The drain electrode is composed of multiple layers, and the most upper layer of the multiple layers is one selected from a Cr layer and a MoW layer. Preferably, the multi-layered conductive layer is composed of two-layered conductive layer having a lower layer of the same material as that of the most upper layer and an upper layer of Al-containing metal.

AB

UP 2002-34

☐ 1 / 1 LGST - Legal



Status - ©EPO

US20020109797 20010725 US/ASA [NMC]ASSIGNMENTOWNER: SAMSUNG ELECTRONICS CO., LTD. 416 MAE...

PN US2002109797 A1 20020815 [US20020109797](A1) First published patent application  
 US6836299 B2 20041228 [US6836299](B2) Granted patent as second publication

AP US91161301 20010725 [2001US-0911613]

PUB20010725 US-API [POS; EXM]

FILING DETAILS

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First published patent application

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20041228 US-B2 [POS; PIF]

Granted patent as second publication

US6836299 B2 20041228 [US6836299]

20010725 US/AS-A [NMC]

ASSIGNMENT

OWNER: SAMSUNG ELECTRONICS CO., LTD. 416 MAETAN-DONG, PAL;

EFFECTIVE DATE: 20010620

ACT ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNORS:CHUNG, WOO-SUK  
/AR;REEL/FRAME:012019/0234

20060627 US/RF-A [OPP]

REISSUE APPLICATION FILED

EFFECTIVE DATE: 20060511

LEG OPP  
Alive

UP 2006-26

☐ 1 / 1 CRXX - US Claims  
Reassignments - ©CLAIMS/RRX

US6836299 20060511 REISSUE REQUESTEDISSUE DATE OF O.G.:

20060627REISSUE REQUEST NUMBER...

AN 4178148

PN 6,836,299 A 20041228 [US6836299]

PA Samsung Electronics Co Ltd KR

PT E (Electrical)

20060511 REISSUE REQUESTED

ISSUE DATE OF O.G.: 20060627

REISSUE REQUEST NUMBER: 11/433903

ACT EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2826

Reissue Patent Number:

UP 2006-26

UACT 2006-06-27

Selected file: FAMPAT

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RELOADED 02/2008 Searchable bibliographic & abstracts-all family members

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Coverage: 79 patenting authorities; start dates vary from 1800 forward  
Abstracts/Titles in English , French & German. Increased standardization

of Assignee/Inventor names. Added cited ref's BE , CH , NL , TR , AU , & JPB

For more details , see the FamPat Fact Sheet and Questel website

Last update of file: 2008/10/31 (YYYY/MM/DD) 2008-44/UP (last update)

Search statement 1

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nbr /pn us6836299

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FAMPAT1 US6836295	1
FAMPAT2 US6836296	1
FAMPAT3 US6836297	1
FAMPAT4 US6836298	1
FAMPAT5 US6836299	1
FAMPAT6 US68363	1
FAMPAT7 US683630	1
FAMPAT8 US6836300	1
FAMPAT9 US6836301	1
FAMPAT10US6836302	1
FAMPAT11US6836303	1
FAMPAT12US6836304	1
FAMPAT13US6836305	1
FAMPAT14US6836306	1
FAMPAT15US6836307	1

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## Families - ©Questel

US20020109797 TFT LCD device having multi-layered pixel electrodes

FAN 20062780108023

US2002109797 A1 20020815 [US20020109797]

KR20020066574 A 20020819 [KR20020066574]

PN JP2002258325 A 20020911 [JP2002258325]

US6836299 B2 20041228 [US6836299]

TW240839 B 20051001 [TW-240839]

TI TFT LCD device having multi-layered pixel electrodes

PA SAMSUNG ELECTRONICS CO LTD

PA0 Samsung Electronics Company, Ltd., Suwon [KR]

IN CHUNG WOO-SUK; HWANG CHANG-WON

2001KR-0006820 20010212

2001JP-0153606 20010523

AP 2001US-0911613 20010725

2001TW-0127318 20011102

PR 2001KR-0006820 20010212

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G02F-001/1362

G02F-001/1368

IC H01L-021/02

H01L-021/28

H01L-021/3205

H01L-021/336

H01L-023/52

H01L-029/66

H01L-029/786

G02F-001/1333 [2006-01 A F I R M JP]

G02F-001/1343 [2006-01 A - I R M EP]

G02F-001/136 [2006-01 A L I B M KR]

G02F-001/1362 [2006-01 A - I R M EP]

G02F-001/1368 [2006-01 A - I R M EP]

ICAA H01L-021/28 [2006-01 A L I R M JP]

H01L-021/3205 [2006-01 A L I R M JP]

H01L-021/336 [2006-01 A L I R M JP]

H01L-023/52 [2006-01 A L I R M JP]

H01L-029/786 [2006-01 A L I R M JP]

G02F-001/13 [2006 C - I R M EP]

ICCA H01L-021/02 [2006 C L I R M JP]

H01L-023/52 [2006 C L I R M JP]

H01L-029/66 [2006 C L I R M JP]

EC G02F-001/1343B  
 G02F-001/1362H  
 G02F-001/1368  
 H01L-021/77T  
 ICO S02F-203/02  
 T01L-029/45S2  
 PCL ORIGINAL (O) : 349042000; CROSS-REFERENCE (X) : 257059000  
 257072000 349147000  
 FI G02F1/1333 505; G02F1/1368; H01L21/28 301R; H01L21/88 R;  
 H01L29/78 616U; H01L29/78 612D; H01L29/78 619A  
 2H090 HB07.X; 2H090 LA04; 2H090 LA12; 2H092 HA05; 2H092 JA41;  
 2H092 JA44; 2H092 JA45; 2H092 JA46; 2H092 JB07; 2H092 JB57; 4M104  
 AA01; 4M104 AA10; 4M104 BB02; 4M104 BB13; 4M104 BB16; 4M104  
 BB18; 4M104 CC01; 4M104 CC05; 4M104 DD08; 4M104 DD09; 4M104  
 DD16; 4M104 DD17; 4M104 DD20; 4M104 DD37; 4M104 DD64; 4M104  
 DD65; 4M104 DD91; 4M104 EE08; 4M104 EE14; 4M104 EE17; 4M104  
 EE18; 4M104 FF18; 4M104 FF22; 4M104 GG09; 4M104 GG10; 4M104  
 GG14; 4M104 GG20; 4M104 HH15; 4M104 HH20; 5F033 GG04; 5F033  
 HH09; 5F033 HH10; 5F033 HH17; 5F033 HH22; 5F033 JJ01; 5F033 JJ07;  
 5F033 JJ10; 5F033 JJ22; 5F033 KK04; 5F033 KK05; 5F033 KK10; 5F033  
 KK22; 5F033 MM05; 5F033 MM08; 5F033 NN06; 5F033 PP15; 5F033  
 QQ01; 5F033 QQ08; 5F033 QQ09; 5F033 QQ10; 5F033 QQ37; 5F033  
 QQ58; 5F033 QQ65; 5F033 RR04; 5F033 RR06; 5F033 RR27; 5F033 SS11;  
 5F033 SS21; 5F033 TT04; 5F033 VV15; 5F033 XX00; 5F033 XX09; 5F033  
 XX20; 5F110 NN35; 5F110 PP03; 5F110 QQ11; 5F110 AA14; 5F110  
 AA26; 5F110 BB02; 5F110 BB04; 5F110 CC02; 5F110 CC08; 5F110  
 DD13; 5F110 EE03; 5F110 EE04; 5F110 EE06; 5F110 EE14; 5F110 FF02;  
 5F110 FF03; 5F110 GG02; 5F110 GG13; 5F110 GG15; 5F110 HJ13; 5F110  
 HL06; 5F110 HL12; 5F110 HL23; 5F110 NN03; 5F110 NN04; 5F110  
 NN23; 5F110 NN24; 5F110 NN27; 5F110 CC03; 5F110 CC07  
 (US20020109797)  
 Cited in the search report  
 -US5917563(A)[US5917563]  
 -US5923390(A)[US5923390]  
 -US5989945(A)[US5989945]  
 -US6081310(A)[US6081310]  
 -US6291136(B1)[US6291136]  
 -US6323521(B1)[US6323521]  
 -US6358759(B1)[US6358759]  
 -US6509942(B2)[US6509942]  
 -US6519014(B2)[US6519014]  
 -US6620660(B2)[US6620660]  
 -US6678017(B1)[US6678017]  
 -US2001020994(A1)[US20010020994]  
 -US2001024187(A1)[US20010024187]  
 -US2001040649(A1)[US20010040649]

-US2002057394(A1)[US20020057394]  
-US2002066902(A1)[US20020066902]  
-US2002106586(A1)[US20020106586]  
-JP56050537(A)[JP56050537]  
-JP5082768(A)[JP05082768]  
-JP5216069(A)[JP05216069]  
-JP10090719(A)[JP10090719]  
-JP10186412(A)[JP10186412]  
-JP10282520(A)[JP10282520]  
-JP11087716(A)[JP11087716]  
-JP2000029053(A)[JP2000029053]  
(US20020109797)

In a TFT LCD device comprising a substrate, at least one thin film transistor formed on the substrate, having a source electrode and a drain electrode, an insulating layer formed over the whole surface of the substrate on which the thin film transistor is formed, having at least one contact hole exposing a portion of the drain electrode, and reflective layer pixel electrode

AB

~~corresponding to the thin film transistor, formed on the insulating layer to be~~  
connected with the drain electrode through the contact hole, the pixel electrode is formed of a multi-layered conductive layer. The drain electrode is composed of multiple layers, and the most upper layer of the multiple layers is one selected from a Cr layer and a MoW layer. Preferably, the multi-layered conductive layer is composed of two-layered conductive layer having a lower layer of the same material as that of the most upper layer and an upper layer of Al-containing metal.

(US20020109797)

[0009] It is an object of the present invention to provide an improved TFT LCD device that can prevent battery effect at the interface between pixel electrodes and drain electrodes, while maintaining high reflectance and conductivity.

OBJ

[0010] It is another object of the present invention to provide an improved TFT LCD device that can prevent insulating oxides at the interface between pixel electrodes and drain electrodes, while maintaining high reflectance and conductivity.

[0011] It is other object of the present invention to provide an improved TFT LCD device that can prevent contact resistance increase at the interface between pixel electrodes and drain electrodes, while maintaining high reflectance and conductivity.

[0012] These and other objects are provided, according to the present invention, by a TFT LCD device having pixel electrodes formed of a multi-layered conductive layer.

(US20020109797)

ADB

However, this material may cause a problem that oxidizes wires of aluminum (Al) to form insulating oxides and thereby hinders in supplying voltage to the pixel electrodes.

These gaps 29 or cracks 31 cause a problem increasing contact resistance

between the pixel electrodes 27 and the drain electrodes 21'.  
(US20020109797)

1. A TFT LCD device, comprising:

ICLM a substrate; a thin film transistor formed on said substrate, having a source electrode and a drain electrode; an insulating layer formed over an entire surface of said substrate on which said thin film transistor is formed, having a contact hole exposing a portion of the drain electrode; and a pixel electrode corresponding to the thin film transistor, formed on said insulating layer and connected to the drain electrode through the contact hole, wherein said pixel electrode is formed of a multi-layered conductive layer.

UP 2006-39

☐ 1 / 1 LGST - Legal  
Status - ©EPO




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US20020109797 20010725 US/ASA [NMC]ASSIGNMENTOWNER: SAMSUNG  
ELECTRONICS CO., LTD. 416 MAE...

PN US2002109797 A1 20020815 [US20020109797](A1) First published patent application  
US6836299 B2 20041228 [US6836299](B2) Granted patent as second publication

AP US91161301 20010725 [2001US-0911613]  
20010725 US-API [POS; EXM]  
FILING DETAILS  
US91161301 20010725 [2001US-0911613]  
20020815 US-A1 [POS; EXM]

PUBFirst published patent application  
US2002109797 A1 20020815 [US20020109797]  
20041228 US-B2 [POS; PIF]  
Granted patent as second publication  
US6836299 B2 20041228 [US6836299]  
20010725 US/AS-A [NMC]  
ASSIGNMENT  
OWNER: SAMSUNG ELECTRONICS CO., LTD. 416 MAETAN-DONG, PAL;  
EFFECTIVE DATE: 20010620

ACT ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNORS:CHUNG, WOO-SUK  
/AR;REEL/FRAME:012019/0234

20060627 US/RF-A [OPP]  
REISSUE APPLICATION FILED  
EFFECTIVE DATE: 20060511

LEG OPP  
Alive

UP 2006-26

☐ 1 / 1 CRXX - US Claims  
Reassignments - ©CLAIMS/RRX

US6836299 20060511 REISSUE REQUESTED  
ISSUE DATE OF O.G.: 20060627  
REISSUE REQUEST NUMBER...

AN 4178148  
PN 6,836,299 A 20041228 [US6836299]  
PA Samsung Electronics Co Ltd KR  
PT E (Electrical)  
20060511 REISSUE REQUESTED  
ISSUE DATE OF O.G.: 20060627  
REISSUE REQUEST NUMBER: 11/433903

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ACT EXAMINATION GROUP RESPONSIBLE FOR REISSUE PROCESS: 2826

Reissue Patent Number:

UP 2006-26  
UACT 2006-06-27

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Patent Search 6836299 11/3/2008

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Source: Combined Source Set 10 - Utility, Design and Plant Patents

Terms: patno=6836299 ([Edit Search](#) | [Suggest Terms for My Search](#))

911613 (09) 6836299 December 28, 2004

## UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

6836299

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December 28, 2004

TFT LCD device having multi-layered pixel electrodes

**REISSUE:** May 11, 2006 - Reissue Application filed, Ex. Gp.: 2826; Re. S.N. 11/433,903 (O.G. June 27, 2006)**INVENTOR:** Chung, Woo-Suk - Anyang-shi, Korea, South (KR); Hwang, Chang-Won - Yongin-shi, Korea, South (KR)**APPL-NO:** 911613 (09)**FILED-DATE:** July 25, 2001**GRANTED-DATE:** December 28, 2004**PRIORITY:** February 12, 2001 - 200106820, Korea, South (KR)**ASSIGNEE-PRE-ISSUE:** July 25, 2001 - ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS)., SAMSUNG ELECTRONICS CO., LTD. 416 MAETAN-DONG, PALDAL-KUSUWON-CITY, KYUNGKI-DO, (1), Reel and Frame Number: 012019/0234**ASSIGNEE-AT-ISSUE:** Samsung Electronics Co., Ltd., Suwon, Korea, South (KR), Foreign company or corporation (03)**LEGAL-REP:** McGuireWoods LLP**PUB-TYPE:** December 28, 2004 - Utility Patent having a previously published pre-grant publication (B2)**PUB-COUNTRY:** United States (US)**REL-DATA:**

Prior Publication 20020109797, August 15, 2002, PENDING

**US-MAIN-CL:** 349#42**US-ADDL-CL:** 257#59, 257#72, 349#147

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or or w/seg in same segment  
w/N within N words w/s in same sentence  
pre/N precedes by N words and not and not

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Combined Source Set 1 - News, All (English, Full Text); Legal News Publications

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## Search Connectors

and	and	w/p	in same paragraph
or	or	w/seg	in same segment
w/N	within N words	w/s	in same sentence
pre/N	precedes by N words	and not	and not

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Source: Combined Source Set 1 - News, All (English, Full Text)

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*IIJ Announces Full Year and Fourth Quarter Results for the Fiscal Year Ended March 31, 2007 Business Wire*  
May 14, 2007 Monday 3:05 AM GMT

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May 14, 2007 Monday 3:05 AM GMT

**DISTRIBUTION:** Business Editors; High-Tech Editors**LENGTH:** 7500 words**HEADLINE:** IIJ Announces Full Year and Fourth Quarter Results for the Fiscal Year Ended March 31, 2007**DATeline:** TOKYO**BODY:**

Internet Initiative Japan Inc. (Nasdaq: IIJI, Tokyo Stock Exchange First Section: 3774) ("IIJ"), one of Japan's leading Internet-access and comprehensive network solutions providers, today announced its financial results for the fourth quarter and the full fiscal year ended March 31, 2007 ("FY2006").1

#### Highlights of FY2006 Results


- Revenue totaled JPY 57,055 million (\$485.3 million), an increase of 14.5% from FY2005.
- Operating income was JPY 3,500 million (\$29.8 million), an increase of 45.2% from FY2005.
- Net income was JPY 5,410 million (\$46.0 million), an increase of 13.8% from FY2005.
- IIJ surpassed its annual target for revenues, operating income and net income that it announced on February 8, 2007.

#### Highlights of Fourth Quarter FY2006 Results

- Revenue totaled JPY 17,023 million (\$144.8 million), an increase of 5.5% from 4Q05.
- Operating income was JPY 1,144 million (\$9.7 million), an increase of 18.4% from 4Q05.
- Net income was JPY 1,151 million (\$9.8 million), a decrease of 40.7% from 4Q05. The decrease is mainly due to an impairment loss on unlisted equity securities.

#### Financial Targets for FY2007

- IIJ targets revenues of JPY 69 billion, operating income of JPY 4.6 billion, income before income tax expense (benefit) of JPY 5.1 billion and net income of JPY 5.6 billion for the fiscal year ending March

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